## Overview

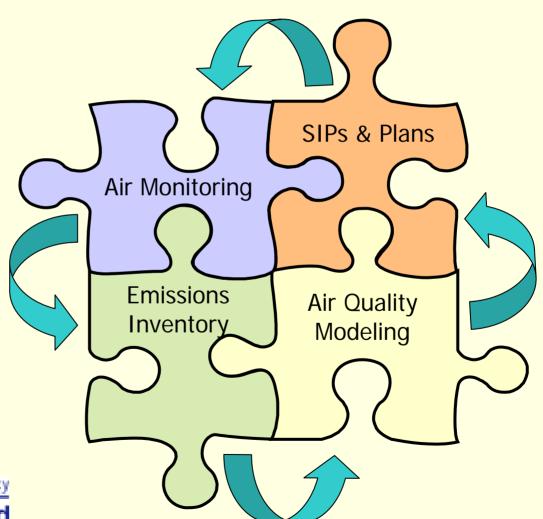
Mobile Source Emissions Inventory Workshop
Michael Benjamin
November 15 and 16, 2006

#### **Presentation Outline**

- Inventory Improvement Process
- SIPs and Mobile Source Inventory Timeline
- Major Mobile Source Inventory Improvements
- Changing Importance of Mobile Sources

## **Emission Inventory Improvement Process**

- Iterative
- SIP Driven
- Research
- Public Process
- Stakeholders



California Environmental Protection Agency



### **Mobile Source Model Updates**

#### EMFAC

- Generally updated every 3-4 years
- Frequency driven by SIPs and conformity
- External adjustments for regulatory process

#### OFFROAD

- Generally updated by category as needed
- Regulatory support is primary driver
- SIPs also a consideration

## SIPs and Mobile Source Inventory Timeline

- Preliminary Mobile Source Emissions Workshops (3/05, 9/06)
- Release EMFAC2007 and OFFROAD2007 (11/06)
- Final Mobile Source Emissions Workshops (11/06, 12/06)
- EMFAC2007 to USEPA (12/06 or 1/07)
- SIPs to USEPA (6/07)

### **Mobile Source Inventory Improvements**

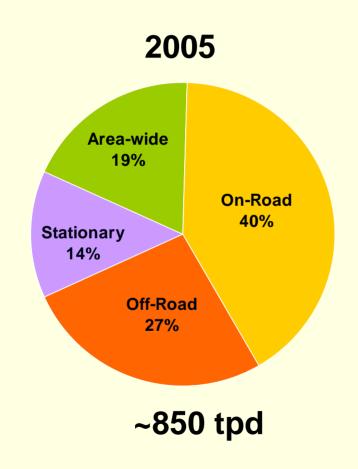
- More current data
  - e.g. DMV population for on-road and off-road vehicles
- More robust methodologies
  - e.g. Heavy duty truck travel; ocean-going vessels
- New research results
  - e.g. Heavy duty truck emissions
- New emissions sources
  - e.g. Ethanol permeation
- Recent regulatory developments
  - e.g. Construction equipment

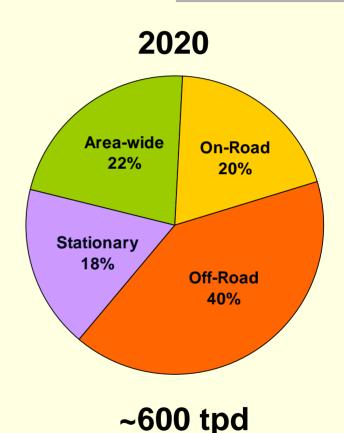
# **Changing Importance of Mobile Source Emissions**

- Mobile sources contribute 60%-90% emissions now and in the future
- Controls will significantly reduce emissions in the future
- Off-road sources becoming relatively more important

## **Changes in ROG Source Contributions**

#### South Coast Air Basin 2005 and 2020





# **Changes in NOx Source Contributions South Coast Air Basin 2005 and 2020**

